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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/280,152	03/26/1999	WILLIAM D. GENTRY	SN0197CIP	5366

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EXAMINER

HARPER, KEVIN C

ART UNIT PAPER NUMBER

2666

DATE MAILED: 03/14/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/280,152

Applicant(s)

GENTRY ET AL

Examiner

Kevin C. Harper

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 December 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-51 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 11, 13, 21, 31, 33, 43 and 45-51 is/are rejected.
- 7) ☒ Claim(s) 2-10, 12, 14-20, 22-30, 32, 34-42 and 44 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 December 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 6) ☐ Other: _____

Response to Arguments

Applicant's arguments with respect to claims 1-51 are have been considered but are moot in view of the new ground(s) of rejection.

Drawings

1. The corrected or substitute drawings were received on December 16, 2002. These drawings are approved.
2. As noted on PTO/SB/05 (Utility Patent Application Transmittal), only Figures 1-3 were submitted during the filing of the application; Figures 5-6 and 9-11 were submitted with the previous response (Paper No. 11). Currently, Figures 4 and 7-8 are missing from the application, yet are described in the specification on pages 7-8, 14-15 and 21-22. Accordingly, the subject matter of this application admits of illustration by a drawing to facilitate understanding of the invention. Applicant is required to furnish Figures 4 and 7-8 under 37 CFR 1.81. No new matter may be introduced in the required drawings.

Double Patenting

3. Claims 1-51 provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 1-51 of copending Application No. 09/218,808. This is a provisional double patenting rejection since the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

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Claims 1, 11, 13, 21, 31, 33, 43 and 45-51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lu et al. (US 5,953,651) in view of Focarile et al. (US 5,434,854).

4. Regarding claims 1, 13, 21, 45 and 47, Lu discloses a method of providing end office wireline telephony services to wireless subscribers (Figure 1; abstract, lines 1-4) such that the wireless call can utilize all of the wireline services associated with an end office telephony switching network (abstract, lines 13-22). However, Lu does not disclose mapping a subscriber's wireless telephony protocol to a packet data network protocol nor managing the subscriber's wireless mobility services for a wireless call. Focarile discloses an ATM network for connecting cellular users (Figure 1) where the wireless telephony protocol is mapped to a data packet network protocol (Figure 3; col. 5, lines 48-57) and the mobility of the wireless subscriber is managed (Figures 4-5; col. 6, lines 47-63). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have a packet network in the invention of Lu as evidenced by Focarile and manage the mobility of wireless subscribers in the packet network in the invention of Lu as evidenced by Focarile in order to interconnect base stations across large distances using a common and widely available backbone data network and to properly manage communications in the packet network among base stations performing handoff, respectively.

5. Regarding claim 33, Lu discloses a method of providing end office wireline telephony services to wireless subscribers (Figure 1; abstract, lines 1-4) such that the wireless call can utilize all of the wireline services associated with an end office telephony switching network (abstract, lines 13-22). However, Lu does not disclose mapping a subscriber's wireless telephony protocol to a packet data network protocol nor managing the subscriber's wireless mobility services for a wireless call. Focarile discloses an ATM network for connecting cellular

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users (Figure 1) where the wireless telephony protocol is mapped to a data packet network protocol (Figure 3; col. 5, lines 48-57) and the mobility of the wireless subscriber is managed (Figures 4-5; col. 6, lines 47-63). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have a packet network in the invention of Lu as evidenced by Focarile and manage the mobility of wireless subscribers in the packet network in the invention of Lu as evidenced by Focarile in order to interconnect base stations across large distances using a common and widely available backbone data network and to properly manage communications in the packet network among base stations performing handoff, respectively. Further, Lu in view of Focarile does not disclose a computer program product for providing end office wireline telephony services. One skilled in the art would recognize that processors executing computer program code allow for flexibility in network or system functionality by a simple upgrade or change in the computer program code as necessary. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have computer program code to provide telephony services in the invention of Lu in view of Focarile.

6. Regarding claim 11, 31 and 43, Lu does not disclose that the mobility services include intra-network handoff. Focarile discloses that mobility services include managing intra-network handoff (Figure 2; col. 6, lines 48-50) by establishing a media channel with a target base station controller gateway and simulcasting all speech to the target base station and the current base station (col. 6, lines 50-60), signaling that handoff is complete and ceasing transmitting and receiving on the current base station controller gateway (col. 7, lines 10-14). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to manage intra-network handoff in the invention of Lu as evidenced by Focarile to achieve soft-handoff for wireless calls transmitted over a packet network.

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7. Regarding claims 46 and 48-51, Lu in view of Focarile does not disclose using the various claimed protocols. One skilled in the art would recognize that appropriate standardized protocols are used in a network depending on desired network operating characteristics and interoperability, availability or cost of network components using the standardized protocols. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to use an IP protocol as the data protocol in the invention of Lu in view of Focarile or an IS-634 wireless protocol, an H.323 protocol, a Session Initiation Protocol, or a Multi-Gateway Control Protocol (or Media Gateway Control Protocol) as signaling protocols in the invention of Lu in view of Focarile.

Allowable Subject Matter

8. Claims 2-10, 12, 14-20, 22-30, 32, 34-42 and 44 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Jaisingh et al. (US 5,600,633) discloses a wireless network using ATM. Doshi et al. US 5,729,536 ; col. 6) and Allen Jr., et al. (US 6,389,011; Figure 7; cols. 12 and 13) each discloses converting between signaling used by an end office and signaling used by a packet network.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Harper whose telephone number is 703-305-0139. The examiner can normally be reached weekdays, except Wednesday, from 9:30 AM to 8:00 PM ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema S. Rao, can be reached at 703-308-5463. The fax number for Technology Center (TC) 2600 is 703-872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Customer Service Office for TC 2600 at 703-306-0377.

Kevin C. Harper

A handwritten signature in black ink, appearing to read 'Kevin C. Harper', written over a horizontal line.

March 10, 2003